

ClaimsWhat is claimed is:

- 1 1. In a telecommunications system providing
2 communication channels for the transmission of packets of
3 audio data between system stations, a system for
4 minimizing the effect of required generated background
5 noise on said transmission channel utilization
6 comprising:
7 means for forming a transmission stream of
8 sequential digital audio data packets;
9 means for associating with each audio packet, a data
10 code representation of the payload data packet enabling
11 the generation of said background noise;
12 means at said system receiving station, responsive
13 to each of said data representations for forming the
14 represented payload data packet enabling said generation
15 of background noise;
16 means at said receiving station for interspersing
17 said formed payload packets enabling background noise
18 generation between said associated audio data packets;
19 and
20 background noise generating means, at said receiving
21 station, responsive to said enabling payload packets for
22 generating said background noise between said audio data
23 packets.
- 1 2. The telecommunication system of claim 1 wherein said
2 audio data packets are voice data packets.
- 1 3. The telecommunication system of claim 2 wherein said
2 generated background noise is white noise.

1 4. The telecommunication system of claim 3 wherein said
2 payload packet enabling said generation of background
3 noise is an Additive Gaussian White Noise (AGWN) packet.

1 5. The telecommunication system of claim 4 wherein said
2 data code representation includes data representing the
3 duration and amplitude of said AGWN packet.

1 6. The telecommunication system of claim 5 wherein said
2 associated data code representations of the payload data
3 packet enabling the generation of said background noise
4 are included in each voice data packet.

1 7. In a telecommunications system providing
2 communication channels for the transmission of packets of
3 audio data between system stations, a method for
4 minimizing the effect of required generated background
5 noise on said transmission channel utilization
6 comprising:
7 forming a transmission stream of sequential digital
8 audio data packets;
9 associating with each audio packet, a data code
10 representation of the payload data packet enabling the
11 generation of said background noise;
12 forming the represented payload data packet enabling
13 said generation of background noise responsive to the
14 receipt of each of said data representations at a system
15 receiving station;
16 interspersing said formed payload packets enabling
17 background noise generation between said associated audio
18 data packets at said receiving station; and
19 generating said background noise between said audio
20 data packets, at said receiving station, responsive to
21 said enabling payload packets.

1 8. The telecommunication method of claim 7 wherein said
2 audio data packets are voice data packets.

1 9. The telecommunication method of claim 8 wherein said
2 generated background noise is white noise.

1 10. The telecommunication method of claim 9 wherein said
2 payload packet enabling said generation of background
3 noise is an AGWN packet.

1 11. The telecommunication method of claim 10 wherein said
2 data code representation includes data representing the
3 duration and amplitude of said AGWN packet.

1 12. The telecommunication method of claim 11 wherein said
2 associated data code representations of the payload data
3 packet enabling the generation of said background noise
4 are included in each voice data packet.

1 13. A computer program having code recorded on a
2 computer readable medium for minimizing the effect of
3 required generated background noise on said transmission
4 channel utilization in a telecommunications system
5 providing communication channels for the transmission of
6 packets of audio data between system stations comprising:
7 means for forming a transmission stream of
8 sequential digital audio data packets;
9 means for associating with each audio packet, a data
10 code representation of the payload data packet enabling
11 the generation of said background noise;
12 means at said system receiving station, responsive
13 to each of said data representations for forming the
14 represented payload data packet enabling said generation
15 of background noise;
16 means at said receiving station for interspersing
17 said formed payload packets enabling background noise
18 generation between said associated audio data packets;
19 and
20 background noise generating means, at said receiving
21 station, responsive to said enabling payload packets for
22 generating said background noise between said audio data
23 packets.

1 14. The computer program of claim 13 wherein said audio
2 data packets are voice data packets.

1 15. The computer program of claim 14 wherein said
2 generated background noise is white noise.

1 16. The computer program of claim 15 wherein said payload
2 packet enabling said generation of background noise is an
3 AGWN packet.

1 17. The computer program of claim 16 wherein said
2 data code representation includes data representing the
3 duration and amplitude of said AGWN packet.

1 18. The computer program of claim 17 wherein said
2 associated data code representations of the payload data
3 packet enabling the generation of said background noise
4 are included in each voice data packet.

1 19. The telecommunications system of claim 4 wherein:
2 said system is an Internet Protocol (IP)
3 telecommunications system; and
4 further including means for interposing Internet
5 page packets into said transmitted stream whereby said
6 Internet page packets are sequenced in spaces between
7 voice packets conventionally occupied by the AGWN
8 packets.

1 20. The telecommunications method of claim 10 wherein:
2 said system is an IP telecommunications system; and
3 further including the step of interposing Internet
4 page packets into said transmitted stream whereby said
5 Internet page packets are sequenced in spaces between
6 voice packets conventionally occupied by the AGWN
7 packets.

1 21. The computer program of claim 16 wherein:
2 said system is an IP telecommunications system; and
3 further including means for interposing Internet
4 page packets into said transmitted stream whereby said
5 Internet page packets are sequenced in spaces between
6 voice packets conventionally occupied by the AGWN
7 packets.